

## **Raw Sequence Listing before editing (for reference only)**



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/521,518

DATE: 05/19/2006

TIME: 08:56:38

Input Set : A:\294-208 PCT-US sequence listing.txt  
 Output Set: N:\CRF4\05192006\J521518.raw

3 <110> APPLICANT: Expressive Research B.V.  
 5 <120> TITLE OF INVENTION: Modulating developmental pathways in plants  
 7 <130> FILE REFERENCE: P59845PC00  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/521,518  
 C--> 10 <141> CURRENT FILING DATE: 2005-01-18  
 12 <150> PRIOR APPLICATION NUMBER: EP 02077908.8  
 13 <151> PRIOR FILING DATE: 2002-07-17  
 15 <160> NUMBER OF SEQ ID NOS: 110  
 17 <170> SOFTWARE: PatentIn version 3.2  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 227  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Arabidopsis thaliana  
 24 <400> SEQUENCE: 1  
 26 Met Ala Ala Glu Gln Pro Leu Asn Gly Ala Phe Tyr Gly Pro Ser Val  
 27 1 5 10 15  
 30 Pro Pro Pro Ala Pro Lys Gly Tyr Tyr Arg Arg Gly His Gly Arg Gly  
 31 20 25 30  
 34 Cys Gly Cys Cys Leu Leu Ser Leu Phe Val Lys Val Ile Ile Ser Leu  
 35 35 40 45  
 38 Ile Val Ile Leu Gly Val Ala Ala Leu Ile Phe Trp Leu Ile Val Arg  
 39 50 55 60  
 42 Pro Arg Ala Ile Lys Phe His Val Thr Asp Ala Ser Leu Thr Arg Phe  
 43 65 70 75 80  
 46 Asp His Thr Ser Pro Asp Asn Ile Leu Arg Tyr Asn Leu Ala Leu Thr  
 47 85 90 95  
 50 Val Pro Val Arg Asn Pro Asn Lys Arg Ile Gly Leu Tyr Tyr Asp Arg  
 51 100 105 110  
 54 Ile Glu Ala His Ala Tyr Tyr Glu Gly Lys Arg Phe Ser Thr Ile Thr  
 55 115 120 125  
 58 Leu Thr Pro Phe Tyr Gln Gly His Lys Asn Thr Thr Val Leu Thr Pro  
 59 130 135 140  
 62 Thr Phe Gln Gly Gln Asn Leu Val Ile Phe Asn Ala Gly Gln Ser Arg  
 63 145 150 155 160  
 66 Thr Leu Asn Ala Glu Arg Ile Ser Gly Val Tyr Asn Ile Glu Ile Lys  
 67 165 170 175  
 70 Phe Arg Leu Arg Val Arg Phe Lys Leu Gly Asp Leu Lys Phe Arg Arg  
 71 180 185 190  
 74 Ile Lys Pro Lys Val Asp Cys Asp Asp Leu Arg Leu Pro Leu Ser Thr  
 75 195 200 205  
 78 Ser Asn Gly Thr Thr Thr Ser Thr Val Phe Pro Ile Lys Cys Asp  
 79 210 215 220  
 82 Phe Asp Phe

*pp 7-9*  
*Does Not Comply*  
*Corrected Diskette Needed*

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Input Set : A:\294-208 PCT-US sequence listing.txt  
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83 225  
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87 <211> LENGTH: 416  
88 <212> TYPE: PRT  
89 <213> ORGANISM: Arabidopsis thaliana  
91 <400> SEQUENCE: 2  
93 Met Val Arg Ser Asn Asp Val Lys Phe Gln Val Tyr Asp Ala Glu Leu  
94 1 5 10 15  
97 Thr His Phe Asp Leu Glu Ser Asn Asn Asn Leu Gln Tyr Ser Leu Ser  
98 20 25 30  
101 Leu Asn Leu Ser Ile Arg Asn Ser Lys Ser Ser Ile Gly Ile His Tyr  
102 35 40 45  
105 Asp Arg Phe Glu Ala Thr Val Tyr Tyr Met Asn Gln Arg Leu Gly Ala  
106 50 55 60  
109 Val Pro Met Pro Leu Phe Tyr Leu Gly Ser Lys Asn Thr Met Leu Leu  
110 65 70 75 80  
113 Arg Ala Leu Phe Glu Gly Gln Thr Leu Val Leu Leu Lys Gly Asn Glu  
114 85 90 95  
117 Arg Lys Lys Phe Glu Asp Asp Gln Lys Thr Gly Val Tyr Arg Ile Asp  
118 100 105 110  
121 Val Lys Leu Ser Ile Asn Phe Arg Val Met Val Leu His Leu Val Thr  
122 115 120 125  
125 Trp Pro Met Lys Pro Val Val Arg Cys His Leu Lys Ile Pro Leu Ala  
126 130 135 140  
129 Leu Gly Ser Ser Asn Ser Thr Gly Gly His Lys Lys Met Leu Leu Ile  
130 145 150 155 160  
133 Gly Gln Leu Val Lys Asp Thr Ser Ala Asn Leu Arg Glu Ala Ser Glu  
134 165 170 175  
137 Thr Asp His Arg Arg Asp Val Ala Gln Ser Lys Lys Ile Ala Asp Ala  
138 180 185 190  
141 Lys Leu Ala Lys Asp Phe Glu Ala Ala Leu Lys Glu Phe Gln Lys Ala  
142 195 200 205  
145 Gln His Ile Thr Val Glu Arg Glu Thr Ser Tyr Ile Pro Phe Asp Pro  
146 210 215 220  
149 Lys Gly Ser Phe Ser Ser Glu Val Asp Ile Gly Tyr Asp Arg Ser  
150 225 230 235 240  
153 Gln Glu Gln Arg Val Leu Met Glu Ser Arg Arg Gln Glu Ile Val Leu  
154 245 250 255  
157 Leu Asp Asn Glu Ile Ser Leu Asn Glu Ala Arg Ile Glu Ala Arg Glu  
158 260 265 270  
161 Gln Gly Ile Gln Glu Val Lys His Gln Ile Ser Glu Val Met Glu Met  
162 275 280 285  
165 Phe Lys Asp Leu Ala Val Met Val Asp His Gln Gly Thr Ile Asp Asp  
166 290 295 300  
169 Ile Asp Glu Lys Ile Asp Asn Leu Arg Ser Ala Ala Ala Gln Gly Lys  
170 305 310 315 320  
173 Ser His Leu Val Lys Ala Ser Asn Thr Gln Gly Ser Asn Ser Ser Leu  
174 325 330 335  
177 Leu Phe Ser Cys Ser Leu Leu Phe Phe Leu Ser Gly Asp Leu

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178	340	345	350
181	Cys Arg Cys Val Cys Val Gly Ser Glu Asn Pro Arg Leu Asn Pro Thr		
182	355	360	365
185	Arg Arg Lys Ala Trp Cys Glu Glu Glu Asp Glu Glu Gln Arg Lys Lys		
186	370	375	380
189	Gln Gln Lys Lys Lys Thr Met Ser Glu Lys Arg Arg Arg Glu Glu Lys		
190	385	390	395
193	Lys Val Asn Lys Pro Asn Gly Phe Val Phe Cys Val Leu Gly His Lys		400
194	405	410	415
197	<210> SEQ ID NO: 3		
198	<211> LENGTH: 1634		
199	<212> TYPE: DNA		
200	<213> ORGANISM: Arabidopsis thaliana		
203	<220> FEATURE:		
204	<221> NAME/KEY: CDS		
205	<222> LOCATION: (501)..(563)		
206	<223> OTHER INFORMATION: signal sequence (exon 1)		
208	<220> FEATURE:		
209	<221> NAME/KEY: CDS		
210	<222> LOCATION: (655)..(708)		
211	<223> OTHER INFORMATION: propeptide (exon 2)		
213	<220> FEATURE:		
214	<221> NAME/KEY: CDS		
215	<222> LOCATION: (797)..(856)		
216	<223> OTHER INFORMATION: propeptide (exon 3)		
218	<220> FEATURE:		
219	<221> NAME/KEY: CDS		
220	<222> LOCATION: (955)..(1131)		
221	<223> OTHER INFORMATION: conserved cysteine motif (exon 4)		
223	<400> SEQUENCE: 3		
224	attaaacgccc aaacactaca tctgtgtttt cgaacaatat tgcgtctgcg tttccttcat	60	
226	cstatctctc cagtgtcaca atgtctgaac taagagacag ctgtaaacta tcattaagac	120	
228	ataaaactacc aaagtatcaa gctaattgtaa aaattactct catttccacg taacaaattg	180	
230	agtttagctta agatattagt gaaaacttaggt ttgaattttc ttcttcttct tccatgcac	240	
232	ctccggaaaaaa agggAACCAA tcaaaaactgt ttgcataatca aactccaaca ctttacagca	300	
234	aatgcaatct ataatctgtt atttatccaa taaaaaacctg tgatttatgt ttggctccag	360	
236	cgtatggaaagt ctatgcattgt gatctctatc caacatgagt aatttgttcag aaaataaaaaa	420	
238	gtatgttata taaaagaatca tccacaagta ctatttcac acactacttc	480	
240	aaaatcacta ctcaagaaat atg aag aag atg aat gtg gtg gct ttt gtt acg	533	
241	Met Lys Lys Met Asn Val Val Ala Phe Val Thr		
242	1 5 10		
244	ctg atc atc tct ttt ctt ctg ctt tct cag gtaaaactgtt aaaaccattt	583	
245	Leu Ile Ile Ser Phe Leu Leu Leu Ser Gln		
246	15 20		
248	tcaagactac cttttctcta tttcagacaa accaaagtaa aacaatgaaa aatctctctg	643	
250	gtctttcata g gta ctt gca gag ttg tca tca tcc agc aac aat gaa act	693	
251	Val Leu Ala Glu Leu Ser Ser Ser Ser Asn Asn Glu Thr		
252	25 30		
254	tcc tct gtt tct cag gtaagagtga tacaaaaaca tactaaacaa actttcaaga	748	

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255	Ser	Ser	Val	Ser	Gln													
256	35																	
258	gagtaatata	taaggaaatg	ttggcttctt	ttttttgttg	ctaattcag	acg	aat	gac	805									
259							Thr	Asn	Asp									
260							40											
262	gag	aac	caa	act	gcg	gcg	ttt	aag	aga	aca	tac	cac	cat	cgt	cca	aga	853	
263	Glu	Asn	Gln	Thr	Ala	Ala	Phe	Lys	Arg	Thr	Tyr	His	His	Arg	Pro	Arg		
264	45						50							55				
266	atc	agtttgtcta	ctctttcaac	actctaattc	ctttgttcta	agtat	tttttttt								906			
267	Ile																	
270	ttgccccccca	caacc	ttttt	tttattaaat	gagccaattt	ttatagat	tgt	ggg	cat						963			
271								Cys	Gly	His								
272								60										
274	gca	tgc	gca	agg	aga	tgc	agt	aag	aca	tcg	agg	aag	aaa	gtt	tgt	cac	1011	
275	Ala	Cys	Ala	Arg	Arg	Cys	Ser	Lys	Thr	Ser	Arg	Lys	Lys	Val	Cys	His		
276	65						70							75				
278	aga	gcc	tgt	gga	agt	tgt	tgt	gcc	aag	tgt	cag	tgt	gtg	ccg	ccg	gga	1059	
279	Arg	Ala	Cys	Gly	Ser	Cys	Cys	Ala	Lys	Cys	Gln	Cys	Val	Pro	Pro	Gly		
280	80						85							90				
282	acc	tcc	ggc	aac	aca	gca	tca	tgt	cct	tgc	tac	gcc	agt	atc	cgt	aca	1107	
283	Thr	Ser	Gly	Asn	Thr	Ala	Ser	Cys	Pro	Cys	Tyr	Ala	Ser	Ile	Arg	Thr		
284	95						100							105			110	
286	cat	ggc	aat	aaa	ctc	aaa	tgt	cct	taaaagactt	ctcatttctc	aactata	tagtc					1161	
287	His	Gly	Asn	Lys	Leu	Lys	Cys	Pro										
288							115											
290	tcatcttctg	attatgttctc	ttctttgtt	atgttgcatt	tgttatgtt	gagcttatta												1221
292	ttatgttcat	ttatgttcat	ttatgttcat	ttatgttcat	ttatgttcat	ttatgttcat												1281
294	gagtgatttt	atggctattt	aagtttttt	ttttttttt	tgggcacaaat	ggcttattaaag												1341
296	ttttaaacat	ctgattttat	ttgttacaaa	aaacaacaaa	gtttcatattt	catattaaaca												1401
298	caaaatctcc	atacatattt	ccaaacacaaa	aaaatacaca	agggggagag	agaccaacgg												1461
300	ttcttggttc	agagtttgc	tcttgggtt	ga	gccgtcacgg	tttcttagac	ttaacagcca											1521
302	caacacctt	ataaaagcttc	acgcgatcct	tcaacgcattc	tcgcccagggc	cgagccacct												1581
304	tattgtttgg	atcaaaacaaac	aaaacttctt	caaacgcatt	caatgcca	aaacgcatt												1634
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308	<211>	LENGTH:	118															
309	<212>	TYPE:	PRT															
310	<213>	ORGANISM:	Arabidopsis thaliana															
312	<400>	SEQUENCE:	4															
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315	1				5				10						15			
318	Leu	Leu	Leu	Ser	Gln	Val	Leu	Ala	Glu	Leu	Ser	Ser	Ser	Ser	Asn	Asn		
319					20				25						30			
322	Glu	Thr	Ser	Ser	Val	Ser	Gln	Thr	Asn	Asp	Glu	Asn	Gln	Thr	Ala	Ala		
323								35			40				45			
326	Phe	Lys	Arg	Thr	Tyr	His	His	Arg	Pro	Arg	Ile	Cys	Gly	His	Ala	Cys		
327								50			55				60			
330	Ala	Arg	Arg	Cys	Ser	Lys	Thr	Ser	Arg	Lys	Lys	Val	Cys	His	Arg	Ala		
331	65						70					75			80			
334	Cys	Gly	Ser	Cys	Cys	Ala	Lys	Cys	Gln	Cys	Val	Pro	Pro	Gly	Thr	Ser		

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335	85	90	95
338 Gly Asn Thr Ala Ser Cys Pro Cys Tyr Ala Ser Ile Arg Thr His Gly			
339	100	105	110
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346 <210> SEQ ID NO: 5			
347 <211> LENGTH: 1453			
348 <212> TYPE: DNA			
349 <213> ORGANISM: Arabidopsis thaliana			
352 <220> FEATURE:			
353 <221> NAME/KEY: CDS			
354 <222> LOCATION: (501)..(533)			
355 <223> OTHER INFORMATION: signal peptide (exon 1)			
357 <220> FEATURE:			
358 <221> NAME/KEY: CDS			
359 <222> LOCATION: (664)..(691)			
360 <223> OTHER INFORMATION: propeptide (exon 2)			
362 <220> FEATURE:			
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364 <222> LOCATION: (772)...(950)			
365 <223> OTHER INFORMATION: conserved cysteine motif (exon 3)			
367 <400> SEQUENCE: 5			
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370 ttatgttata tataatacag tagacttaggg atccaggta gtttctttct ttattttgag			120
372 ttgtgttta tgttgatt tacgtttta tatgtaaata agatattttta cgaattatgg			180
374 ttttatttgg gttagaagttg tagaatgact taaacaatca agtggcagaa tgagatatat			240
376 aaagtaatat aatatatgtt ccgttattaa cttattgtac atgtaatgtt ggaagcttac			300
378 acacacacac cttctataaa tagctgacaa aactgggtgt tacacacaaac acattctaa			360
380 atctctcaaa gtaagaacta agagctttac tacagtccctt ctctctacac atctctctc			420
382 tctctcaaga gctagtcatg gccaaactca taacttcttt tctcttactc acaattttat			480
384 tcactttcgat ttgtctcaact atg tca aaa gaa gct gag tac cat cca gaa agt			533
385 Met Ser Lys Glu Ala Glu Tyr His Pro Glu Ser			
386 1 5 10			
388 gtaagttttt atttttttgtt aaaatagaaaa gtgttagttt tataattcat tcaattgttt			593
390 ttgccttcc ctttcttattt attgctataaa atctaataacc cgcgttaaaa tttgtttga			653
392 aattaaacag tat gga cca gga agt ctg aaa tca tac c gtaagtaaaa			701
393 Tyr Gly Pro Gly Ser Leu Lys Ser Tyr			
394 15 20			
396 acttcttctt cttttatgaa tcttgggttct tattatataat caaataaaaaa ctcgattatc			761
398 atgattgcag aa tgt gga gga caa tgc aca agg aga tgt agc aac aca			809
399 Gln Cys Gly Gly Gln Cys Thr Arg Arg Cys Ser Asn Thr			
400 25 30			
402 aag tat cat aag cca tgc atg ttc ttc tgc caa aag tgt tgt gct aaa			857
403 Lys Tyr His Lys Pro Cys Met Phe Phe Cys Gln Lys Cys Cys Ala Lys			
404 35 40 45			
406 tgc ctt tgt gtc cct cca ggc acg tac ggc aac aaa caa gtg tgt cct			905
407 Cys Leu Cys Val Pro Pro Gly Thr Tyr Gly Asn Lys Gln Val Cys Pro			
408 50 55 60 65			
410 tgt tac aac aac tqq aag act caa caa qqt qqa cca aaa tgt cca			
411 950			

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/19/2006  
PATENT APPLICATION: US/10/521,518                    TIME: 08:56:39

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:31; Xaa Pos. 2,4,7,8,9,10,11,12,13,14,16,17,18,20,21,24,25,27,31,34,36  
Seq#:31; Xaa Pos. 37,38,39,41,44,45,46,47,48,49,50,52,53

from Seg. 19

?

gtc ggt gaa ggc gta gtg aaa att g	gtatgttaacg	ctaacatata	739
Val Gly Glu Gly Val Val Lys Ile			
35			
tgtttaaagtgt tataatctctg ttttatatatg atttttaaac	ggttaaaaac	tagtcatatg	799
tgtataaata tatcatgtga ag at	tgc ggt ggg aga tgc	aaa ggt aga tgc	850
	Asp Cys Gly	Gly Arg Cys Lys Gly Arg Cys	
<i>insert → 40</i>	45		
agc aaa tcg tcg agg cca aat ctg tgt ttg aga gca tgc	aac agc	tgt	898
Ser Lys Ser Ser Arg Pro Asn Leu Cys Leu Arg Ala Cys Asn Ser Cys			
50	55	60	65
tgt tac cgc tgc aac tgt gtg cca cca ggc acc gcc	ggg aac cac	cac	946
Cys Tyr Arg Cys Asn Cys Val Pro Pro Gly Thr Ala Gly Asn His His			
70	75	80	
ctt tgt cct tgc tac gcc tcc att acc act cgt	ggt ggc cgt	ctc aag	994
Leu Cys Pro Cys Tyr Ala Ser Ile Thr Thr Arg Gly Gly Arg Leu Lys			
85	90	95	
tgc cct taaacatata cacatacaga tgtgtgtata	tgtctccgc	gagcacacac	1050
Cys Pro			

from. Seq. 21

8

ggt gaa ggc gta gtg aaa atc g gtatgttaacc ctaacttata tataacacgt 745  
 Gly Glu Gly Val Val Lys Ile  
 35

tggtatataa cttaatattt ctgatgggtg cactctttc ccaacttata tatactttg 805  
 ttatggagaa tgtctcaagc ttttaatgag atgttataatc tcggagaagg aaactatgaa 865  
 ctaaaagctt tggattcctt tgcaacaaat ataaaactttt gatgggtta aacggattaa 925  
 attagttaca tgtgtttgat gaatgtatgt atgattgttag at tgt ggt ggg aga 979  
Asp Cys Gly Gly Arg  
insert 40

tgc aaa gat aga tgc agc aaa tct tcg aga acg aag cta tgc ttg aga 1027  
 Cys Lys Asp Arg Cys Ser Lys Ser Arg Thr Lys Leu Cys Leu Arg  
 45 50 55 60

gcg tgc aac agc tgt tgt tcc cgc tgc aac tgt gtg cca cct ggt act 1075  
 Ala Cys Asn Ser Cys Cys Ser Arg Cys Asn Cys Val Pro Pro Gly Thr  
 65 70 75

tct gga aac acc cac ctt tgt cct tgc tac gcc tcc att acc act cac 1123  
 Ser Gly Asn Thr His Leu Cys Pro Cys Tyr Ala Ser Ile Thr Thr His  
 80 85 90

ggt ggc cgc ctc aag tgc cct taaaatttct tctgtgtctg tttctgtttc 1174  
 Gly Gly Arg Leu Lys Cys Pro

95

*from Seq. 25*

9

gcg ccg cct gtc aaa cct cca aca cca cct ccc gta aga act cg <sup>g</sup> ata g	1391		
Ala Pro Pro Val Lys Pro Pro Thr Pro Pro Val Arg Thr Arg Ile			
200	205	210	
gtataataaa ttttcttca aaagtgtgat gattatcggt cggtgattag atcggatgta	1451		
taattggact aaatttgga cggttag at tgc gtg cct tta tgt ggg acg	1502		
Asp Cys Val Pro Leu Cys Gly Thr			
<i>start</i> → 215	220		
agg tgt ggg caa cac tcg agg aag aac gta tgt atg aga gcg tgc gtc	1550		
Arg Cys Gly Gln His Ser Arg Lys Asn Val Cys Met Arg Ala Cys Val			
225	230	235	
acg tgc tgc tac cgc tgc aag tgt gtt ccc cca ggc acc tac ggt aat	1598		
Thr Cys Cys Tyr Arg Cys Lys Cys Val Pro Pro Gly Thr Tyr Gly Asn			
240	245	250	
aag gag aag tgt gga tct tgt tac gcc aac atg aag aca cgt ggt gga	1646		
Lys Glu Lys Cys Gly Ser Cys Tyr Ala Asn Met Lys Thr Arg Gly Gly			
255	260	265	270
aaa tcc aaa tgt cct tgaacctta tatgacgatg gttgttaaac gaaataattt	1701		
Lys Ser Lys Cys Pro			
275			

**VERIFICATION SUMMARY**  
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Input Set : A:\294-208 PCT-US sequence listing.txt  
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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:517 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 7  
L:1047 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 15  
L:1311 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 19  
L:1312 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:19  
L:1448 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:1786 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25  
L:2187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:2191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:16  
L:2195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:32  
L:2199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:48